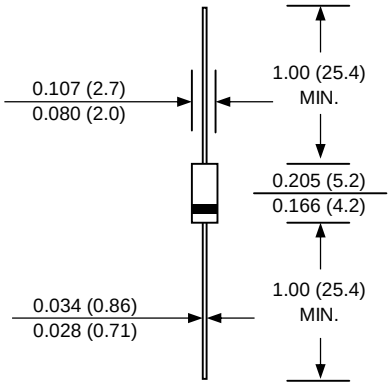
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HVR125 - HVR180

HIGH VOLTAGE RECTIFIER DIODES

PRV : 2500 - 8000 Volts
Io : 0.2 - 0.5 Ampere

DO - 41



Dimensions in inches and (millimeters)

FEATURES :

* Glass passivated chip
* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

MECHANICAL DATA :

* Case : DO-41 Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.34 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	HVR 125	HVR 130	HVR 140	HVR 150	HVR 160	HVR 170	HVR 180	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2500	3000	4000	5000	6000	7000	8000	V
Maximum RMS Voltage	V_{RMS}	1750	2100	2800	3500	4200	4900	5600	V
Maximum DC Blocking Voltage	V_{DC}	2500	3000	4000	5000	6000	7000	8000	V
Maximum Average Forward Current Ta = 50°C	$I_{F(AV)}$	0.5		0.3		0.2			A
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
Maximum Peak Forward Voltage at I_F = 1.0 A	V_F	3.3		5.0		8.0			V
Maximum DC Reverse Current Ta = 25°C	I_R	5.0							µA
at Rated DC Blocking Voltage Ta = 100°C	$I_{R(H)}$	50							µA
Junction Temperature Range	T_J	- 40 to + 150							°C
Storage Temperature Range	T_{STG}	- 40 to + 150							°C

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RATING AND CHARACTERISTIC CURVES (HVR125 - HVR180)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

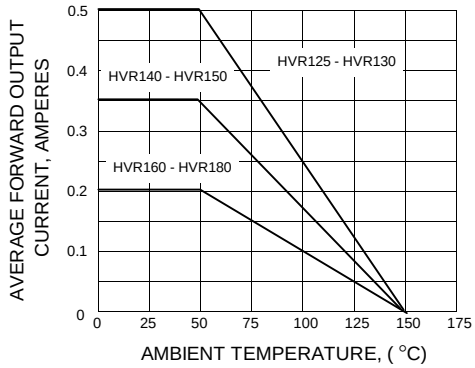


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

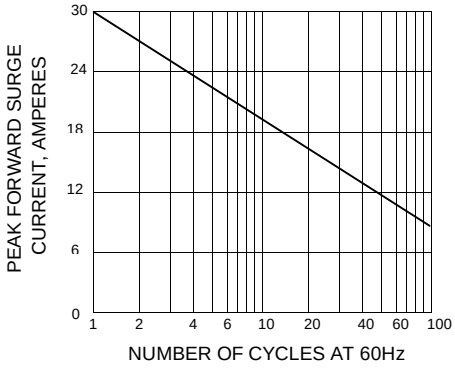


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

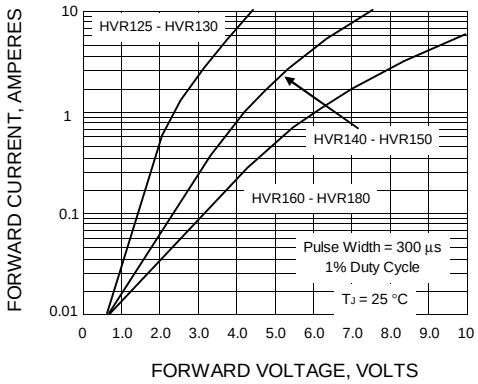
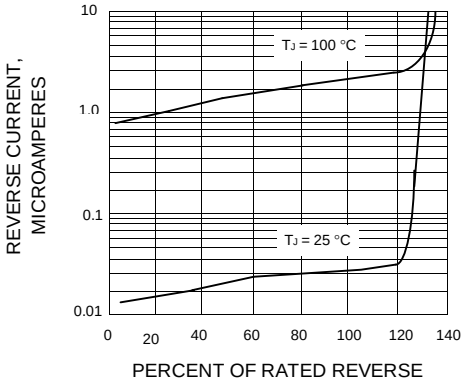


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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